

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P946762

Luminaire Tested: **GALN-SB2B-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-827-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10255 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

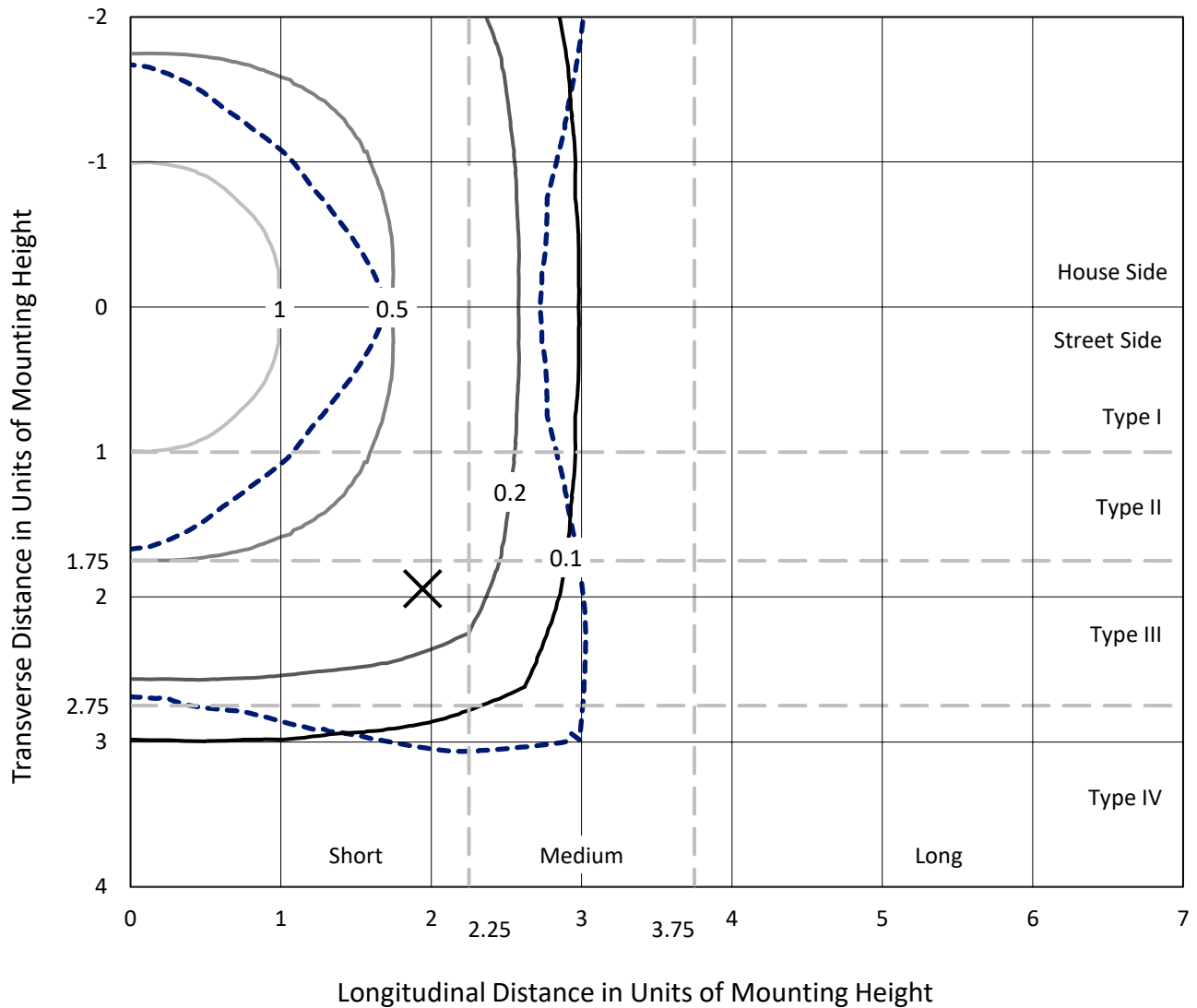
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

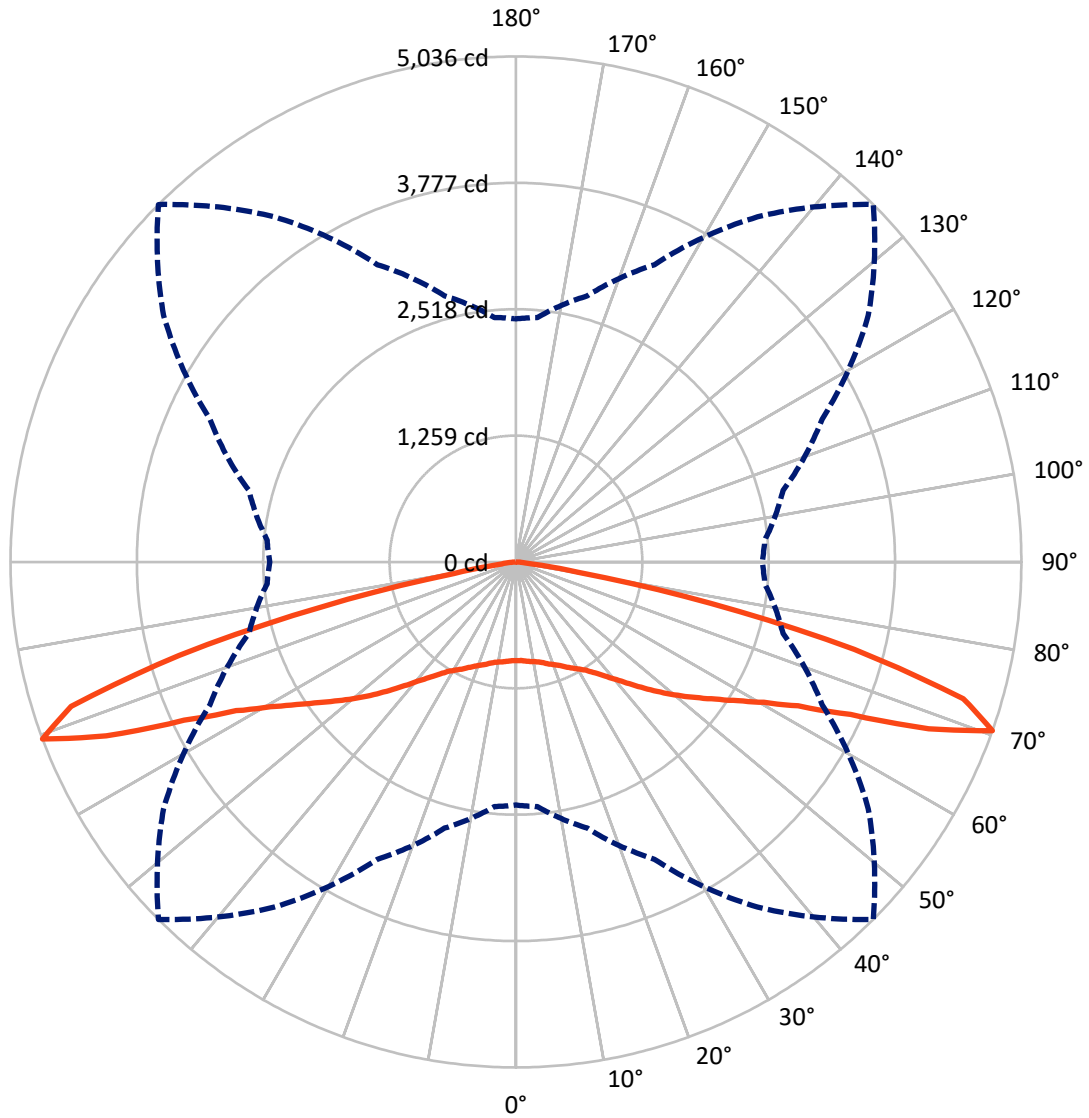
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5127.5	0.0	5127.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5127.5	0.0	5127.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10255.0	0.0	10255.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	0.9
10°-20°	295.9	2.9
20°-30°	528.9	5.2
30°-40°	857.3	8.4
40°-50°	1396.3	13.6
50°-60°	2129.0	20.8
60°-70°	3167.2	30.9
70°-80°	1726.2	16.8
80°-90°	58.8	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	10255.0	100.0
0°-180°	10255.0	100.0

Coefficient of Utilization



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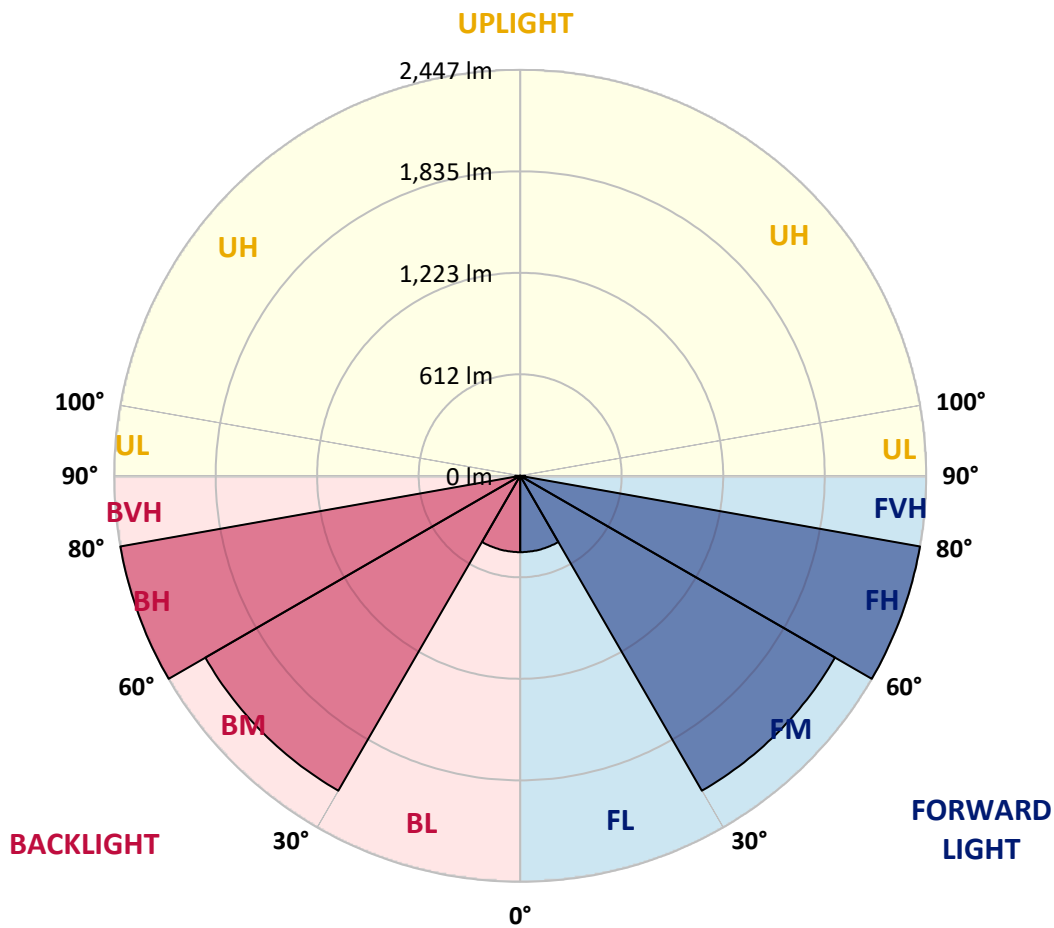
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	460.1	4.5			
FM	(30°-60°)	2191.3	21.4			
FH	(60°-80°)	2446.7	23.9			G2/5000
FVH	(80°-90°)	29.4	0.3			G1/100
BL	(0°-30°)	460.1	4.5	B1/500		
BM	(30°-60°)	2191.3	21.4	B2/2500		
BH	(60°-80°)	2446.7	23.9	B3/2500		G2/5000
BVH	(80°-90°)	29.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	982.3	982.3	982.3	982.3	982.3	982.3	982.3	982.3	982.3	982.3
2.5°	987.0	988.0	985.9	984.9	983.9	982.3	982.8	985.4	987.5	987.0
5°	995.2	996.2	994.7	994.2	992.1	991.6	991.6	994.2	995.7	994.7
7.5°	1004.5	1006.0	1003.4	1002.9	1001.9	1000.9	1000.3	1002.9	1004.5	1004.5
10°	1013.2	1014.8	1012.7	1011.2	1010.1	1010.1	1009.1	1011.2	1013.7	1013.2
12.5°	1022.5	1023.5	1021.5	1020.4	1020.4	1022.0	1020.4	1021.5	1023.5	1022.5
15°	1033.8	1034.3	1033.8	1035.4	1037.9	1043.1	1038.4	1037.4	1038.4	1035.9
17.5°	1049.3	1050.3	1052.3	1055.9	1059.5	1068.8	1060.6	1058.0	1058.0	1052.9
20°	1068.3	1069.8	1072.9	1079.1	1083.7	1092.5	1084.3	1080.7	1079.1	1072.4
22.5°	1088.4	1091.0	1095.6	1103.8	1112.1	1120.3	1112.1	1105.9	1101.3	1092.5
25°	1111.5	1114.6	1121.8	1135.2	1146.6	1158.4	1148.6	1136.3	1127.0	1114.6
27.5°	1144.5	1148.1	1156.9	1173.3	1187.7	1198.0	1188.8	1172.8	1159.9	1145.0
30°	1190.8	1194.4	1204.7	1222.2	1232.0	1238.7	1232.5	1220.2	1204.7	1187.7
32.5°	1250.6	1255.2	1266.5	1283.0	1285.1	1286.1	1284.0	1277.8	1266.5	1245.9
35°	1326.2	1331.4	1344.3	1357.6	1355.6	1357.6	1354.6	1352.5	1344.3	1320.6
37.5°	1418.9	1425.1	1438.5	1448.8	1443.6	1441.0	1441.6	1442.1	1437.4	1411.2
40°	1526.5	1534.8	1544.5	1555.3	1546.6	1538.9	1544.0	1548.1	1544.0	1517.2
42.5°	1637.2	1649.0	1659.3	1674.8	1667.6	1657.8	1665.0	1669.6	1660.9	1632.1
45°	1760.3	1771.6	1785.0	1808.1	1803.0	1792.7	1803.0	1804.0	1789.1	1755.1
47.5°	1887.4	1899.3	1919.3	1950.2	1948.2	1936.8	1950.2	1943.0	1924.0	1883.3
50°	2007.9	2024.4	2055.3	2098.5	2102.6	2088.7	2106.7	2092.8	2060.9	2010.0
52.5°	2121.2	2138.7	2187.6	2246.3	2261.2	2243.2	2267.4	2243.2	2195.3	2129.9
55°	2240.1	2259.7	2317.8	2394.5	2424.4	2411.0	2433.7	2397.1	2329.2	2249.9
57.5°	2380.1	2392.0	2461.5	2552.6	2603.1	2606.1	2616.4	2554.7	2472.3	2382.2
60°	2532.0	2548.5	2624.2	2733.3	2813.1	2838.9	2828.0	2736.4	2640.6	2537.2
62.5°	2726.6	2744.6	2835.2	2966.0	3092.2	3156.0	3113.8	2980.9	2862.5	2738.5
65°	2887.8	2907.8	3071.6	3304.8	3534.4	3662.6	3556.5	3312.0	3098.8	2923.8
67.5°	2770.9	2795.6	3052.5	3480.9	4051.8	4434.4	4071.4	3533.4	3115.8	2878.5
70°	2421.8	2445.0	2744.6	3268.2	4197.5	5035.7	4285.0	3364.5	2754.4	2488.8
72.5°	1607.9	1682.5	1985.8	2613.9	3748.1	4659.9	3785.1	2560.8	1842.1	1604.3
75°	533.4	593.1	800.1	1355.1	2510.4	3485.0	2389.9	1199.1	633.8	456.2
77.5°	134.4	155.0	213.7	387.7	1001.4	1984.2	901.5	316.6	172.5	120.5
80°	65.4	72.1	103.0	129.2	250.7	630.7	235.3	121.5	81.3	62.8
82.5°	36.0	36.6	58.2	73.1	93.2	163.2	96.8	71.0	46.9	38.1
85°	22.1	21.6	30.9	39.1	39.1	58.2	46.3	39.1	26.8	23.7
87.5°	8.8	8.8	11.3	12.4	10.8	14.9	11.8	12.9	10.3	9.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
982.3
987.5
995.2
1004.5
1013.2
1022.0
1035.9
1052.9
1072.4
1092.0
1114.1
1144.5
1187.7
1246.4
1320.6
1411.2
1517.2
1634.1
1758.7
1880.7
2008.9
2123.7
2239.1
2369.8
2520.7
2716.8
2895.0
2843.0
2453.2
1552.3
431.4
107.6
57.7
38.1
24.7
10.3
0.0

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